

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

Claims 1 - 9 (Cancelled)

10. (Currently Amended) A data map forming system comprising:

a basic data sheet which can store a plurality of first records including a plurality of different items of document numbers identified under plain names in a listed state;

first evaluation item listing means for listing by totalizing ~~collecting~~ values of first specific items constituted by numeral values of a plurality of first records on the basic data sheet or values of first specific items and arranging the values and first simple codes corresponding to the values in a predetermined arrangement order in such a state that [identical] overlapping values of the values are removed ~~degenerated~~;

second evaluation item listing means for listing by totalizing ~~collecting~~ values of second specific items of the plurality of first records on the basic data sheet and arranging the values and second simple codes corresponding to the values in a predetermined arrangement order in such a state that ~~identical~~ overlapping values of the values are removed ~~degenerated~~;

first classifying means for classifying the plurality of first records by the first simple codes corresponding to the values set by the first evaluation item listing means on the basis of the values of the first specific items of the first records;

second classifying means for classifying the plurality of first records by the second simple codes corresponding to the values set by the second evaluation item listing means on the basis of the values of the second specific items of the first records;

rearrangement means for rearranging the plurality of first records while giving priority to the first simple codes given by the first classifying means and rearranging the plurality of first records by the second simple codes given by the second classifying means;

a map sheet different from the basic data sheet;

second simple code parallel arrangement means for arranging the second simple codes listed by the second evaluation item listing means on the map sheet in order of a list on a right side in a horizontal direction in such a state that an interval is opened in a vertical column on at least a left side;

specific item mapping means for acquiring display specific items, the first simple codes, and the second simple codes from the plurality of first records in the order of the first records rearranged by the first simple codes, determining vertical direction positions on the map sheet means by the first simple codes and horizontal direction positions on the map sheet by the second simple codes, arranging the display specific items at cell positions where the vertical direction positions and the horizontal direction positions cross, and arranging the first simple codes on the left column opened by the second simple code parallel arrangement means; and

output means for displaying or printing a matrix-like map sheet formed by the specific item mapping means or performing file outputting.

11. (Previously Presented) A data map forming system according to claim 10, wherein at least one of the first and the second evaluation item listing means equally divides a value between a maximum value and a minimum value of numeral values corresponding to

specific items, which can be treated as numeral values, of the first records in a predetermined range and lists equally divided values.

12. (Currently Amended) A data map forming system according to claim 10, wherein at least one of the first and the second evaluation item listing means totalizes [collects] frequencies of the specific items of the plurality of first records on the basic data sheet, rearranges the values in the order of frequency, and lists the values.

13. (Previously Presented) A data map forming system according to claim 10, comprising:

first evaluation item selection means for acquiring a plurality of list items set by the first evaluation item listing means to make it possible to select one of the listed items;

second evaluation item selection means for acquiring a plurality of list items set by a second evaluation item listing setting means to make it possible to select one of the listed items; and

on-map moving means for moving a display position to a crossing point between the first and second items on a map sheet by the first evaluation item selection means or the second evaluation item selection means on the basis of the selected item.

14. (Previously Presented) A data map forming system according to claim 10, wherein the display specific items of the first records arranged on the map sheet include a first identification code which can be easily or generally understood by a reader or an operator on at least the basic data sheet; and comprising:

acquiring means for acquiring an item of the first identification code from the display specific items;

conversion means for converting the acquired item of the first identification code into a second identification code of a kind of document number adapted for access to a defined data base; and

display means for acquiring first specific item information of a second record identified by the second identification code obtained by the conversion means from a data server in which a plurality of second records including items corresponding to the items of the first identification codes and a plurality of items related to the items of the first identification codes are stored such that second identification codes are given to the second records, and displaying the specific item information.

15. (Previously Presented) A data map forming system according to claim 14, wherein the display means comprises:

a first evaluation items selection unit for acquiring a plurality of list items listed by the first evaluation item listing means to make it possible to select one of the list items;

a second evaluated item selection unit for acquiring a plurality of list items listed by the second evaluation item listing means to make it possible to select one of the list items;

an on-map moving selection unit for moving a display position to a crossing point between the first and second items on a map sheet by the first evaluation item selection unit or the second evaluation item selection unit on the basis of the selected item; and

an item acquiring unit for acquiring an item of the first identification code from the display specific items at the position selected by the on-map moving selection unit.

16. (Previously Presented) A data map forming system according to claim 10, wherein the second simple code parallel arrangement means comprises a second display conversion unit for displaying a value corresponding to the second simple code set by the second evaluation item listing means, and

the specific item mapping means comprises a first display conversion unit for displaying a value set by the first evaluation item listing means corresponding to the first simple codes arranged on a left column on the map sheet.

17. (Previously Presented) A data map forming method comprising:
extracting a plurality of values of predetermined references related to a plurality of first records on a basic data sheet in which a plurality of first records including a plurality of different items of document numbers identified under plain names can be stored in a listed state to list the values as first simple codes in a predetermined arrangement order;

extracting a plurality of values of predetermined references having a viewpoint different from the viewpoint of the first simple codes to list the values as second simple codes in a predetermined arrangement order;

classifying the first records by the first simple codes corresponding to the values on the basis of numeral values of the plurality of first records on the basic data sheet or first specific items constituted by character strings;

classifying the first records by second simple codes corresponding to the values on the basis of values of second specific items of the plurality of first records on the basic data sheet;

rearranging the plurality of first records on the basic data sheet by the predetermined references while giving priority to the first simple codes and rearranging the second simple codes;

arranging the second simple codes on a map sheet in an order of a list on a right side in a horizontal direction in such a state that an interval is opened in a vertical column on at least a left side;

sequentially acquiring the specific items of the first records, the first simple codes, and the second simple codes in the order of the first records rearranged by the first simple codes;

determining vertical direction positions on the map sheet by the first simple codes and horizontal direction position on the map sheet by the second simple codes in the acquisition order;

arranging the specific items at positions where the vertical direction positions and the horizontal direction positions cross, and arranging the first simple codes on the left column opened by second simple code parallel arrangement means; and

forming a matrix-like map sheet.

18. (Cancelled)